

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A method for editing media in an electronic apparatus with digital audio/video processing capability, comprising:

receiving audio data and a plurality of associated audio descriptors, which describe characteristic of said audio data, from an audio source connecting to said electronic apparatus;

receiving visual data included a plurality of visual segments, and a plurality of associated visual descriptors, which describe characteristic of said visual data, from a video source connecting to said electronic apparatus;

determining a plurality of corresponding weights for said visual data, said weights indicating qualities, importance, or preference of said visual data;

correlating said audio data and said visual data based on said corresponding weights, said associated audio descriptors, and said associated visual descriptors; and

adjusting said audio data and said visual data to construct a media output;

wherein the receiving audio data and said associated audio descriptors comprises:

receiving an audio signal from said audio source; and

generating a plurality of audio indices by choosing said audio signal with audio change therein;

wherein the step of correlating further comprises:

finding a duration on each said visual segment;

determining a searching window based on said duration;

finding, within said searching window, a first index on said audio indices, wherein said first index is more than other indices on said audio indices within said searching window; and

adjusting each said visual segment, based on a time corresponding to said first index.

2. (Previously Presented) The method according to claim 1, further comprising rendering said media output with style information to a device with at least one audio/ video output built in or connecting to said electronic apparatus.

3. (Previously Presented) The method according to claim 1, wherein the step of receiving audio data and said associated audio descriptors comprises:

receiving an audio signal from said audio source; and

analyzing and segmenting said audio signal for generating said audio data and said associated audio descriptors, wherein said audio data consists of a plurality of audio segments.

4. (Cancelled)

5. (Previously Presented) The method according to claim 4, wherein the step of determining a plurality of corresponding weights comprises calculating any said corresponding weight for respective said visual segment.

6. (Previously Presented) The method according to claim 5, wherein the step of correlating comprises:

extracting an audio duration, from said associated audio descriptors, for respective said audio segment ;

extracting a visual duration, from said associated visual descriptors, for respective said visual segment;

evaluating a plurality of correlating scores for respective sequences of said visual segments, based on said corresponding weights, said corresponding audio durations and said corresponding visual durations; and

finding a sequence of visual segments with a correlating score that is the maximal within said plurality of correlating scores.

7. (Cancelled)

8. (Cancelled)

9. (Previously Presented) A production method of media output in an electronic apparatus with digital audio/video processing capability, comprising:

receiving audio segments and a plurality of associated audio descriptors, which describe characteristic of said audio segments, from an audio source connecting to said electronic apparatus;

receiving visual segments and a plurality of associated visual descriptors, which describe characteristic of said visual segments, from a video source connecting to said electronic apparatus;

determining a plurality of corresponding weights for each said visual segment, said weights indicating qualities, importance, or preference of said visual segment;

extracting a visual duration, from said associated visual descriptors, for each said visual segment;

extracting an audio duration, from said associated audio descriptors, for each said audio segment;

evaluating a plurality of correlating scores for respective sequences of said visual segments, based on said corresponding weights, said corresponding audio durations and said corresponding visual durations;

finding a sequence of visual segments with a correlating score that is the maximal within said plurality of correlating scores; and

adjusting said audio segments and said visual segments to generate a media output.

10. (Previously Presented) The production method according to claim 9, further comprising rendering said media output with style information to a device with at least one audio/video output built in or connecting to said electronic apparatus.

11. (Previously Presented) The production method according to claim 9, wherein the step of receiving audio segments and associated audio descriptors comprises:

receiving an audio signal from said audio source; and

analyzing and segmenting said audio signal for generating said audio segments and said associated audio descriptors.

12. (Previously Presented) The production method according to claim 9, wherein the step of receiving visual segments and associated visual descriptors comprises:

receiving an video signal from said video source; and

analyzing and segmenting said video signal for generating said video segments and said associated visual descriptors.

13. (Previously Presented) The production method according to claim 9, wherein said visual segments and said associated visual descriptors are in format of MPEG-7.

14. (Previously Presented) The production method according to claim 9, wherein said audio segments and said associated audio descriptors are in format of MPEG-7.

15. (Currently Amended) A production method of media output in an electronic apparatus with digital audio/video processing capability, comprising:

receiving audio data and a plurality of associated audio descriptors, which describe characteristic of said audio data, from an audio source connecting to said electronic apparatus;

receiving visual data and a plurality of associated visual descriptors, which describe characteristic of said visual data, from a video source connecting to said electronic apparatus,
and wherein said visual data comprises a plurality of visual segments;

finding a duration on each said visual segment;

determining a searching window based on said duration;

determining a plurality of corresponding weights for said visual data, said weights indicating qualities, importance, or preference of said visual segment;

finding, within within said searching window, a value corresponding to said associated audio descriptors on said audio data, wherein said value is more than other value corresponding to associated audio descriptors within said searching window; and

adjusting said visual data, based on a time corresponding to said value, to generate a media output, wherein said media output is based on audio data and said adjusted visual data.

16. (Previously Presented) The production method according to claim 15, further comprising rendering said media output with style information to a device with at least one audio/video output built in or connecting to said electronic apparatus.

17. (Previously Presented) The production method according to claim 15, wherein said visual data and said associated visual descriptors are in format of MPEG-7.

18. (Previously Presented) The production method according to claim 15, wherein said audio data and said associated audio descriptors are in format of MPEG-7.

19. (Previously Presented) The production method according to claim 15, wherein the step of receiving said audio data and said associated audio descriptors comprises:

receiving an audio signal from said audio source; and
generating a plurality of audio indices by choosing said audio signal with audio change therein.

20. (Canceled)

21. (Currently Amended) A ~~computer readable~~ computer editing system for audio/video comprising:

means for receiving audio data and a plurality of associated audio descriptors, which describe characteristic of said audio data, from an outside audio source connecting to said computer editing system;

means for receiving visual data and a plurality of associated visual descriptors, which describe characteristic of said visual data, from an outside video source connecting to said computer editing system;

means for a weighting processing device for determining a corresponding weight for inputted visual segment by a processor in said computer editing system, said weight indicating qualities, importance, or preference of said visual segment;

means for an extracting device for extracting a visual duration, from said associated visual descriptors, for each said visual segment;

means for an extracting device for extracting an audio duration, from inputted associated audio descriptors, for each said audio segment;

means for a evaluating device for evaluating a plurality of correlating scores for respective sequences of said visual segments by said processor in said computer editing system, based on said corresponding weights, said corresponding visual durations and said corresponding audio duration;

means for a searching device for finding a sequence of visual segments with a correlating score that is the maximal within said plurality of correlating scores; and

means for a construction device for adjusting said audio segments and said segments to generate a media output.

22. (Currently Amended) A computer-readable computer editing system for audio/video comprising:

means for receiving audio data and a plurality of associated audio descriptors, which describe characteristic of said audio data, from an outside audio source connecting to said computer editing system;

means for receiving visual data and a plurality of associated visual descriptors, which describe characteristic of said visual data, from an outside video source connecting to said computer editing system;

means for finding a duration on each said visual data;

means for determining a searching window based on said duration by a processor in said computer editing system;

means for a weighting processing device for determining a plurality of corresponding weights for inputted visual data by said processor in said computer editing system, said weights indicating qualities, importance, or preference of said visual data;

means for a searching device for finding, within a within said searching window, a value corresponding to inputted associated audio descriptors on inputted audio data by said processor in said computer editing system, wherein said value is more than other value corresponding to said associated audio descriptors within said searching window; and

means for a construction device for adjusting said visual data, based on a time corresponding to said value, to generate a media output, wherein said media output is based on said audio data and said adjusted visual data.